N

17

16

15

14

13

12

Saddle River

Third River

Legend

Study Name

- 2008 RM 0 to RM 1 Sampling Study
- 2007-2008 Low Resolution Cores from EPA Empirical Mass Balance Evaluation Sampling Program
- 2007-2008 Surface Sediment Samples from EPA Empirical Mass Balance Evaluation Sampling Program
- 2007-2008 CSO and SWO from EPA Empirical Mass Balance Evaluation Sampling Program
- 2007-2008 Tributaries Water Column from EPA Empirical Mass Balance Evaluation Sampling Program
- 2005-2006 USEPA Sampling Program (Malcolm Pirnie, Inc.) High Resolution Cores

2,3,7,8-TCDD Sample Concentration (ppt)

- < 10.0
- 10.1 - 32.0
- 32.1 - 100.0
- 100.1 - 320.0
- 320.1 - 1000.0
- 1000.1 - 3200.0
- 3200.1 - 10000.0
- > 10000

- Rock and Coarse gravel
- Gravel and Sand
- Sand
- Silt and Sand
- Silt

- Lower Passaic River Centerline (1/10-Mile River Segments)
- Passaic River Above Dundee Dam
- Tributaries
- Shoreline as defined by the New Jersey Department of Environmental Protection

Miles
0 0.25 0.5 1

US Army Corps of Engineers

2,3,7,8-TCDD Surface Sediment Samples from 2005 to 2008

Lower Passaic River Restoration Project

Note : Study names and corresponding sampling year are listed in the legend. Samples represent either sediment grab samples or the top segment of a sediment core. Because each study provided a different definition for "surface sediments," the samples plotted on this figure generally represent sediments from a depth of 0 foot to less than 1 foot. If samples are plotted at the same location, samples from the latest sampling event were plotted on top. Duplicate samples were averaged before plotting.

Figure 14-3a1

September 2008

N

Third River

Second River

13

12

11

10

9

8

Rock and Coarse gravel

Gravel and Sand

Sand

Silt and Sand

Silt

Legend

Study Name

- 2008 RM 0 to RM 1 Sampling Study
- 2007-2008 Low Resolution Cores from EPA Empirical Mass Balance Evaluation Sampling Program
- 2007-2008 Surface Sediment Samples from EPA Empirical Mass Balance Evaluation Sampling Program
- 2007-2008 CSO and SWO from EPA Empirical Mass Balance Evaluation Sampling Program
- 2007-2008 Tributaries Water Column from EPA Empirical Mass Balance Evaluation Sampling Program
- 2005-2006 USEPA Sampling Program (Malcolm Pirnie, Inc.) High Resolution Cores

2,3,7,8-TCDD Sample Concentration (ppt)

- < 10.0
- 10.1 - 32.0
- 32.1 - 100.0
- 100.1 - 320.0
- 320.1 - 1000.0
- 1000.1 - 3200.0
- 3200.1 - 10000.0
- > 10000

- Lower Passaic River Centerline (1/10-Mile River Segments)
- Passaic River Above Dundee Dam
- Tributaries
- Shoreline as defined by the New Jersey Department of Environmental Protection

Miles

0 0.25 0.5 1

US Army Corps of Engineers

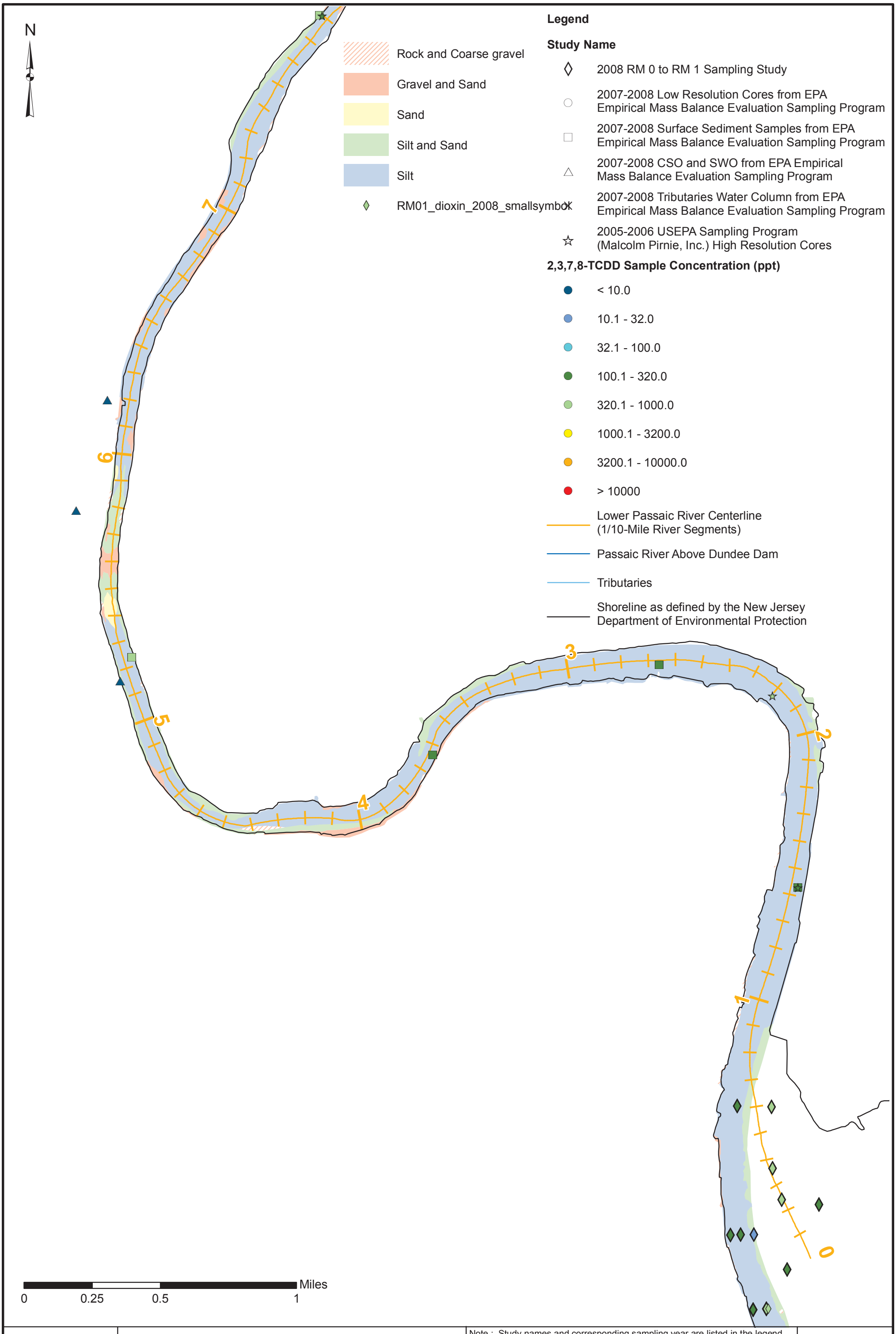
2,3,7,8-TCDD Surface Sediment Samples from 2005 to 2008

Lower Passaic River Restoration Project

Note : Study names and corresponding sampling year are listed in the legend. Samples represent either sediment grab samples or the top segment of a sediment core. Because each study provided a different definition for "surface sediments," the samples plotted on this figure generally represent sediments from a depth of 0 foot to less than 1 foot. If samples are plotted at the same location, samples from the latest sampling event were plotted on top. Duplicate samples were averaged before plotting.

Figure 14-3a2

September 2008



2,3,7,8-TCDD Surface Sediment Samples from 2005 to 2008

Lower Passaic River Restoration Project

Note : Study names and corresponding sampling year are listed in the legend. Samples represent either sediment grab samples or the top segment of a sediment core. Because each study provided a different definition for "surface sediments," the samples plotted on this figure generally represent sediments from a depth of 0 foot to less than 1 foot. If samples are plotted at the same location, samples from the latest sampling event were plotted on top. Duplicate samples were averaged before plotting.

Figure 14-3a3

September 2008

N

17

16

15

14

13

12

Saddle River

Third River

Rock and Coarse gravel

Gravel and Sand

Sand

Silt and Sand

Silt

Legend

Study Name

- 2008 RM 0 to RM 1 Sampling Study
- 2007-2008 Surface Sediment Samples from EPA Empirical Mass Balance Evaluation Sampling Program
- 2007-2008 Low Resolution Cores from EPA Empirical Mass Balance Evaluation Sampling Program
- 2007-2008 CSO and SWO from EPA Empirical Mass Balance Evaluation Sampling Program
- 2007-2008 Tributaries Water Column from EPA Empirical Mass Balance Evaluation Sampling Program
- 2005-2006 USEPA Sampling Program (Malcolm Pirnie, Inc.) High Resolution Cores

Total PCB Sample Concentration (ppb)

- < 100.0
- 100.1 - 320.0
- 320.1 - 1000.0
- > 1000.1

Lower Passaic River Centerline (1/10-Mile River Segments)

Passaic River Above Dundee Dam

Tributaries

Shoreline as defined by the New Jersey Department of Environmental Protection

Miles

0 0.25 0.5 1

US Army Corps of Engineers

Total PCB Surface Sediment Samples from 2005 to 2008

Lower Passaic River Restoration Project

Note : Study names and corresponding sampling year are listed in the legend. Samples represent either sediment grab samples or the top segment of a sediment core. Because each study provided a different definition for "surface sediments," the samples plotted on this figure generally represent sediments from a depth of 0 foot to less than 1 foot. If samples are plotted at the same location, samples from the latest sampling event were plotted on top. Duplicate samples were averaged before plotting.

Figure 14-3b1

September 2008

N

Third River

Second River

13

12

11

10

9

8

Legend

Study Name

- 2008 RM 0 to RM 1 Sampling Study
- 2007-2008 Surface Sediment Samples from EPA Empirical Mass Balance Evaluation Sampling Program
- 2007-2008 Low Resolution Cores from EPA Empirical Mass Balance Evaluation Sampling Program
- 2007-2008 CSO and SWO from EPA Empirical Mass Balance Evaluation Sampling Program
- 2007-2008 Tributaries Water Column from EPA Empirical Mass Balance Evaluation Sampling Program
- 2005-2006 USEPA Sampling Program (Malcolm Pirnie, Inc.) High Resolution Cores

Total PCB Sample Concentration (ppb)

- < 100.0
- 100.1 - 320.0
- 320.1 - 1000.0
- > 1000.1

- Lower Passaic River Centerline (1/10-Mile River Segments)
- Passaic River Above Dundee Dam
- Tributaries
- Shoreline as defined by the New Jersey Department of Environmental Protection

- Rock and Coarse gravel
- Gravel and Sand
- Sand
- Silt and Sand
- Silt

Miles
0 0.25 0.5 1

US Army Corps of Engineers

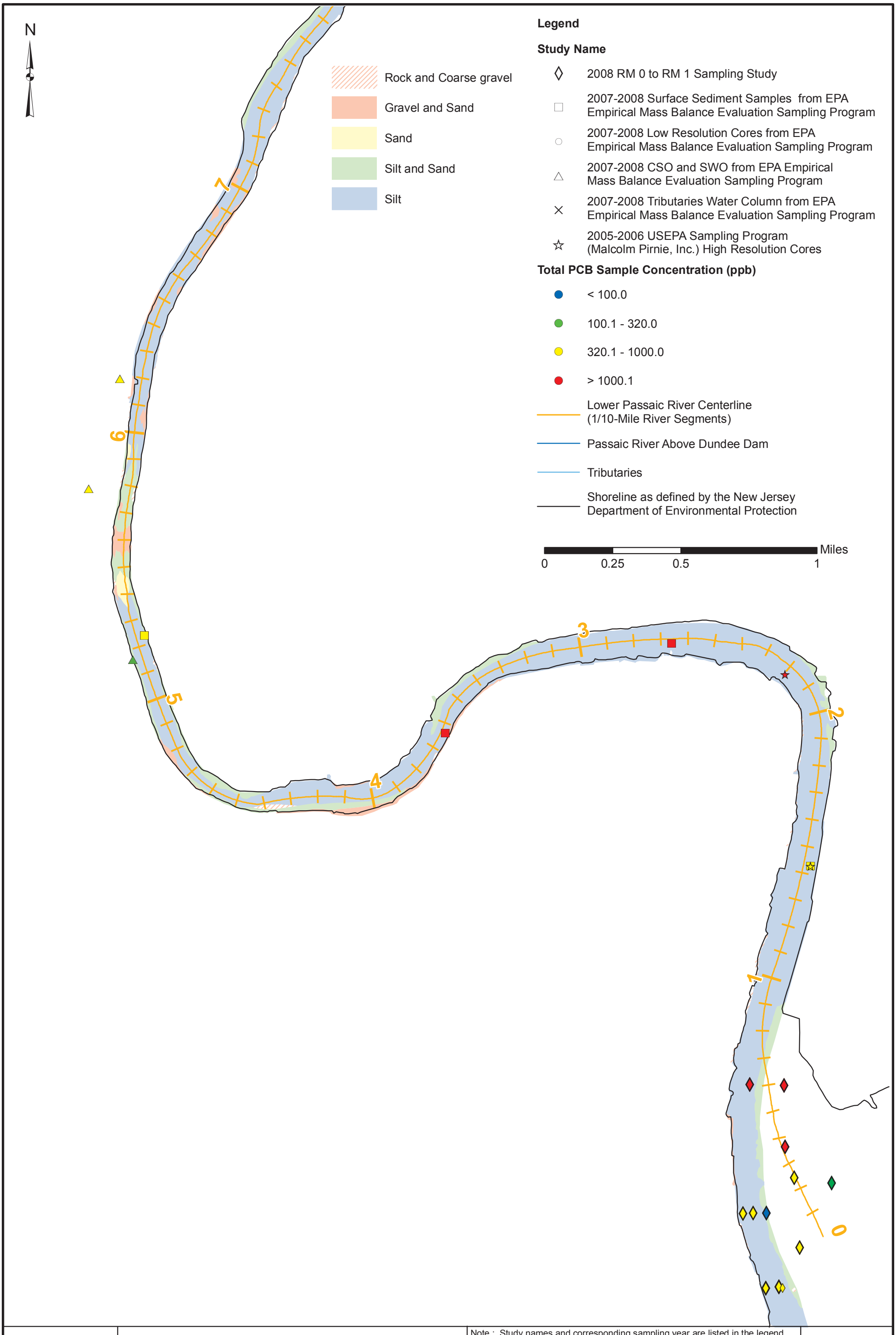
Total PCB Surface Sediment Samples from 2005 to 2008

Lower Passaic River Restoration Project

Note : Study names and corresponding sampling year are listed in the legend. Samples represent either sediment grab samples or the top segment of a sediment core. Because each study provided a different definition for "surface sediments," the samples plotted on this figure generally represent sediments from a depth of 0 foot to less than 1 foot. If samples are plotted at the same location, samples from the latest sampling event were plotted on top. Duplicate samples were averaged before plotting.

Figure 14-3b2

September 2008



Total PCB Surface Sediment Samples from 2005 to 2008

Lower Passaic River Restoration Project

Note : Study names and corresponding sampling year are listed in the legend. Samples represent either sediment grab samples or the top segment of a sediment core. Because each study provided a different definition for "surface sediments," the samples plotted on this figure generally represent sediments from a depth of 0 foot to less than 1 foot. If samples are plotted at the same location, samples from the latest sampling event were plotted on top. Duplicate samples were averaged before plotting.

Figure 14-3b3

September 2008

N

17

16

15

14

13

12

Saddle River

Third River

Rock and Coarse gravel

Gravel and Sand

Sand

Silt and Sand

Silt

Legend

Study Name

- 2008 RM 0 to RM 1 Sampling Study
- 2007-2008 Low Resolution Cores from EPA Empirical Mass Balance Evaluation Sampling Program
- 2007-2008 Surface Sediment Samples from EPA Empirical Mass Balance Evaluation Sampling Program
- 2007-2008 CSO and SWO from EPA Empirical Mass Balance Evaluation Sampling Program
- 2007-2008 Tributaries Water Column from EPA Empirical Mass Balance Evaluation Sampling Program
- 2005-2006 USEPA Sampling Program (Malcolm Pirnie, Inc.) High Resolution Cores

LMW PAH Sample Concentration (ppm)

- < 3.2
- 3.2 - 10.0
- 10.1 - 32.0
- > 32.0

- Lower Passaic River Centerline (1/10-Mile River Segments)
- Passaic River Above Dundee Dam
- Tributaries
- Shoreline as defined by the New Jersey Department of Environmental Protection

Miles

0 0.25 0.5 1

US Army Corps of Engineers

Total LMW PAH Surface Sediment Samples from 2005 to 2008

Lower Passaic River Restoration Project

Note : Study names and corresponding sampling year are listed in the legend. Samples represent either sediment grab samples or the top segment of a sediment core. Because each study provided a different definition for "surface sediments," the samples plotted on this figure generally represent sediments from a depth of 0 foot to less than 1 foot. If samples are plotted at the same location, samples from the latest sampling event were plotted on top. Duplicate samples were averaged before plotting.

Figure 14-3c1

September 2008

N

Third River

Second River

13

12

11

10

9

8

Legend

Study Name

- 2008 RM 0 to RM 1 Sampling Study
- 2007-2008 Low Resolution Cores from EPA Empirical Mass Balance Evaluation Sampling Program
- 2007-2008 Surface Sediment Samples from EPA Empirical Mass Balance Evaluation Sampling Program
- 2007-2008 CSO and SWO from EPA Empirical Mass Balance Evaluation Sampling Program
- 2007-2008 Tributaries Water Column from EPA Empirical Mass Balance Evaluation Sampling Program
- 2005-2006 USEPA Sampling Program (Malcolm Pirnie, Inc.) High Resolution Cores

LMW PAH Sample Concentration (ppm)

- < 3.2
- 3.2 - 10.0
- 10.1 - 32.0
- > 32.0

- Lower Passaic River Centerline (1/10-Mile River Segments)
- Passaic River Above Dundee Dam
- Tributaries
- Shoreline as defined by the New Jersey Department of Environmental Protection

- Rock and Coarse gravel
- Gravel and Sand
- Sand
- Silt and Sand
- Silt

0 0.25 0.5 1 Miles

US Army Corps of Engineers

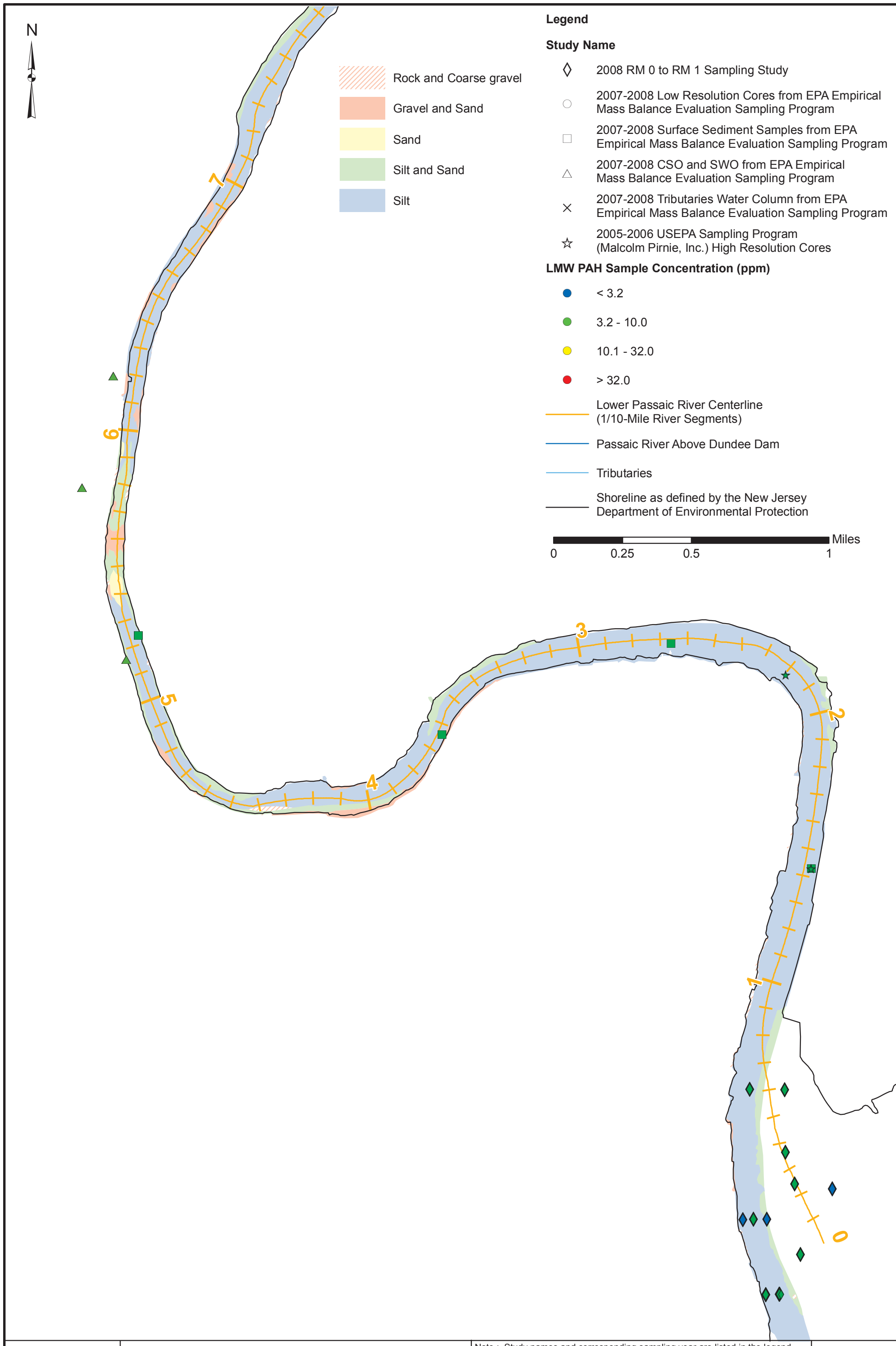
Total LMW PAH Surface Sediment Samples from 2005 to 2008

Lower Passaic River Restoration Project

Note : Study names and corresponding sampling year are listed in the legend. Samples represent either sediment grab samples or the top segment of a sediment core. Because each study provided a different definition for "surface sediments," the samples plotted on this figure generally represent sediments from a depth of 0 foot to less than 1 foot. If samples are plotted at the same location, samples from the latest sampling event were plotted on top. Duplicate samples were averaged before plotting.

Figure 14-3c2

September 2008



Total LMW PAH Surface Sediment Samples from 2005 to 2008

Lower Passaic River Restoration Project

Note : Study names and corresponding sampling year are listed in the legend. Samples represent either sediment grab samples or the top segment of a sediment core. Because each study provided a different definition for "surface sediments," the samples plotted on this figure generally represent sediments from a depth of 0 foot to less than 1 foot. If samples are plotted at the same location, samples from the latest sampling event were plotted on top. Duplicate samples were averaged before plotting.

Figure 14-3c3

September 2008

N

17

16

15

14

13

12

Saddle River

Third River

Legend

Study Name

- 2008 RM 0 to RM 1 Sampling Study
- 2007-2008 Low Resolution Cores from EPA Empirical Mass Balance Evaluation Sampling Program
- 2007-2008 Surface Sediment Samples from EPA Empirical Mass Balance Evaluation Sampling Program
- 2007-2008 CSO and SWO from EPA Empirical Mass Balance Evaluation Sampling Program
- 2007-2008 Tributaries Water Column from EPA Empirical Mass Balance Evaluation Sampling Program
- 2005-2006 USEPA Sampling Program (Malcolm Pirnie, Inc.) High Resolution Cores

HMW PAH Sample Concentration (ppm)

- < 10.0
- 10.1 - 32.0
- 32.1 - 100.0
- 100.1 - 320.0
- > 320.0

- Rock and Coarse gravel
- Gravel and Sand
- Sand
- Silt and Sand
- Silt

- Lower Passaic River Centerline (1/10-Mile River Segments)
- Passaic River Above Dundee Dam
- Tributaries
- Shoreline as defined by the New Jersey Department of Environmental Protection

Miles
0 0.25 0.5 1

US Army Corps of Engineers®

Total HMW PAH Surface Sediment Samples from 2005 to 2008

Lower Passaic River Restoration Project

Note : Study names and corresponding sampling year are listed in the legend. Samples represent either sediment grab samples or the top segment of a sediment core. Because each study provided a different definition for "surface sediments," the samples plotted on this figure generally represent sediments from a depth of 0 foot to less than 1 foot. If samples are plotted at the same location, samples from the latest sampling event were plotted on top. Duplicate samples were averaged before plotting.

Figure 14-3d1

September 2008

N

Third River

Second River

13

12

11

10

9

8

Legend

Study Name

- 2008 RM 0 to RM 1 Sampling Study
- 2007-2008 Low Resolution Cores from EPA Empirical Mass Balance Evaluation Sampling Program
- 2007-2008 Surface Sediment Samples from EPA Empirical Mass Balance Evaluation Sampling Program
- 2007-2008 CSO and SWO from EPA Empirical Mass Balance Evaluation Sampling Program
- 2007-2008 Tributaries Water Column from EPA Empirical Mass Balance Evaluation Sampling Program
- 2005-2006 USEPA Sampling Program (Malcolm Pirnie, Inc.) High Resolution Cores

HMW PAH Sample Concentration (ppm)

- < 10.0
- 10.1 - 32.0
- 32.1 - 100.0
- 100.1 - 320.0
- > 320.0
- Lower Passaic River Centerline (1/10-Mile River Segments)
- Passaic River Above Dundee Dam
- Tributaries
- Shoreline as defined by the New Jersey Department of Environmental Protection
- Rock and Coarse gravel
- Gravel and Sand
- Sand
- Silt and Sand
- Silt

Miles

0 0.25 0.5 1

US Army Corps of Engineers

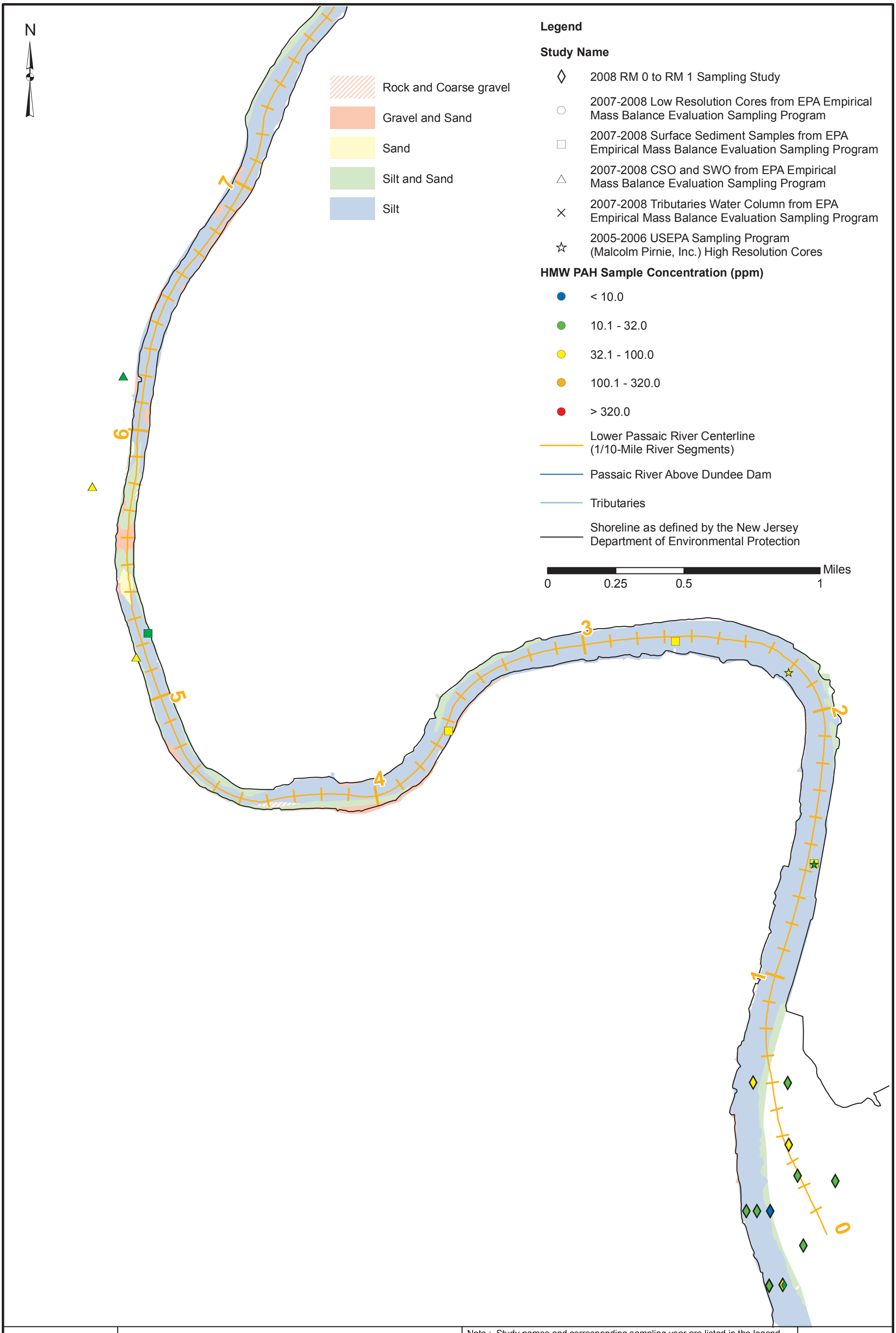
Total HMW PAH Surface Sediment Samples from 2005 to 2008

Lower Passaic River Restoration Project

Note : Study names and corresponding sampling year are listed in the legend. Samples represent either sediment grab samples or the top segment of a sediment core. Because each study provided a different definition for "surface sediments," the samples plotted on this figure generally represent sediments from a depth of 0 foot to less than 1 foot. If samples are plotted at the same location, samples from the latest sampling event were plotted on top. Duplicate samples were averaged before plotting.

Figure 14-3d2

September 2008



US Army Corps of Engineers®

Total HMW PAH Surface Sediment Samples from 2005 to 2008

Lower Passaic River Restoration Project

Note : Study names and corresponding sampling year are listed in the legend. Samples represent either sediment grab samples or the top segment of a sediment core. Because each study provided a different definition for "surface sediments," the samples plotted on this figure generally represent sediments from a depth of 0 foot to less than 1 foot. If samples are plotted at the same location, samples from the latest sampling event were plotted on top. Duplicate samples were averaged before plotting.

Figure 14-3d3

September 2008

N

17

16

15

14

13

12

Saddle River

Third River

Rock and Coarse gravel

Gravel and Sand

Sand

Silt and Sand

Silt

Legend

Study Name

- ◊ 2008 RM 0 to RM 1 Sampling Study
- ○ 2007-2008 Low Resolution Cores from EPA Empirical Mass Balance Evaluation Sampling Program
- □ 2007-2008 Surface Sediment Samples from EPA Empirical Mass Balance Evaluation Sampling Program
- △ 2007-2008 CSO and SWO from EPA Empirical Mass Balance Evaluation Sampling Program
- × 2007-2008 Tributaries Water Column from EPA Empirical Mass Balance Evaluation Sampling Program
- ☆ 2005-2006 USEPA Sampling Program (Malcolm Pirnie, Inc.) High Resolution Cores

4,4'-DDX Sample Concentration (ppb)

- < 100.0
- 100.1 - 320.0
- 320.1 - 1000.0
- > 1000

Lower Passaic River Centerline (1/10-Mile River Segments)

Passaic River Above Dundee Dam

Tributaries

Shoreline as defined by the New Jersey Department of Environmental Protection

Miles

0 0.2 0.4 0.8

US Army Corps of Engineers®

Total 4,4'-DDX Surface Sediment Samples from 2005 to 2008

Lower Passaic River Restoration Project

Note : Study names and corresponding sampling year are listed in the legend. Samples represent either sediment grab samples or the top segment of a sediment core. Because each study provided a different definition for "surface sediments," the samples plotted on this figure generally represent sediments from a depth of 0 foot to less than 1 foot. If samples are plotted at the same location, samples from the latest sampling event were plotted on top. Duplicate samples were averaged before plotting.

Figure 14-3e1

September 2008

N

Third River

Second River

13

12

11

10

9

8

Legend

Study Name

- 2008 RM 0 to RM 1 Sampling Study
- 2007-2008 Low Resolution Cores from EPA Empirical Mass Balance Evaluation Sampling Program
- 2007-2008 Surface Sediment Samples from EPA Empirical Mass Balance Evaluation Sampling Program
- 2007-2008 CSO and SWO from EPA Empirical Mass Balance Evaluation Sampling Program
- 2007-2008 Tributaries Water Column from EPA Empirical Mass Balance Evaluation Sampling Program
- 2005-2006 USEPA Sampling Program (Malcolm Pirnie, Inc.) High Resolution Cores

4,4'-DDX Sample Concentration (ppb)

- < 100.0
- 100.1 - 320.0
- 320.1 - 1000.0
- > 1000

- Lower Passaic River Centerline (1/10-Mile River Segments)
- Passaic River Above Dundee Dam
- Tributaries
- Shoreline as defined by the New Jersey Department of Environmental Protection

- Rock and Coarse gravel
- Gravel and Sand
- Sand
- Silt and Sand
- Silt

Miles
0 0.2 0.4 0.8

US Army Corps of Engineers

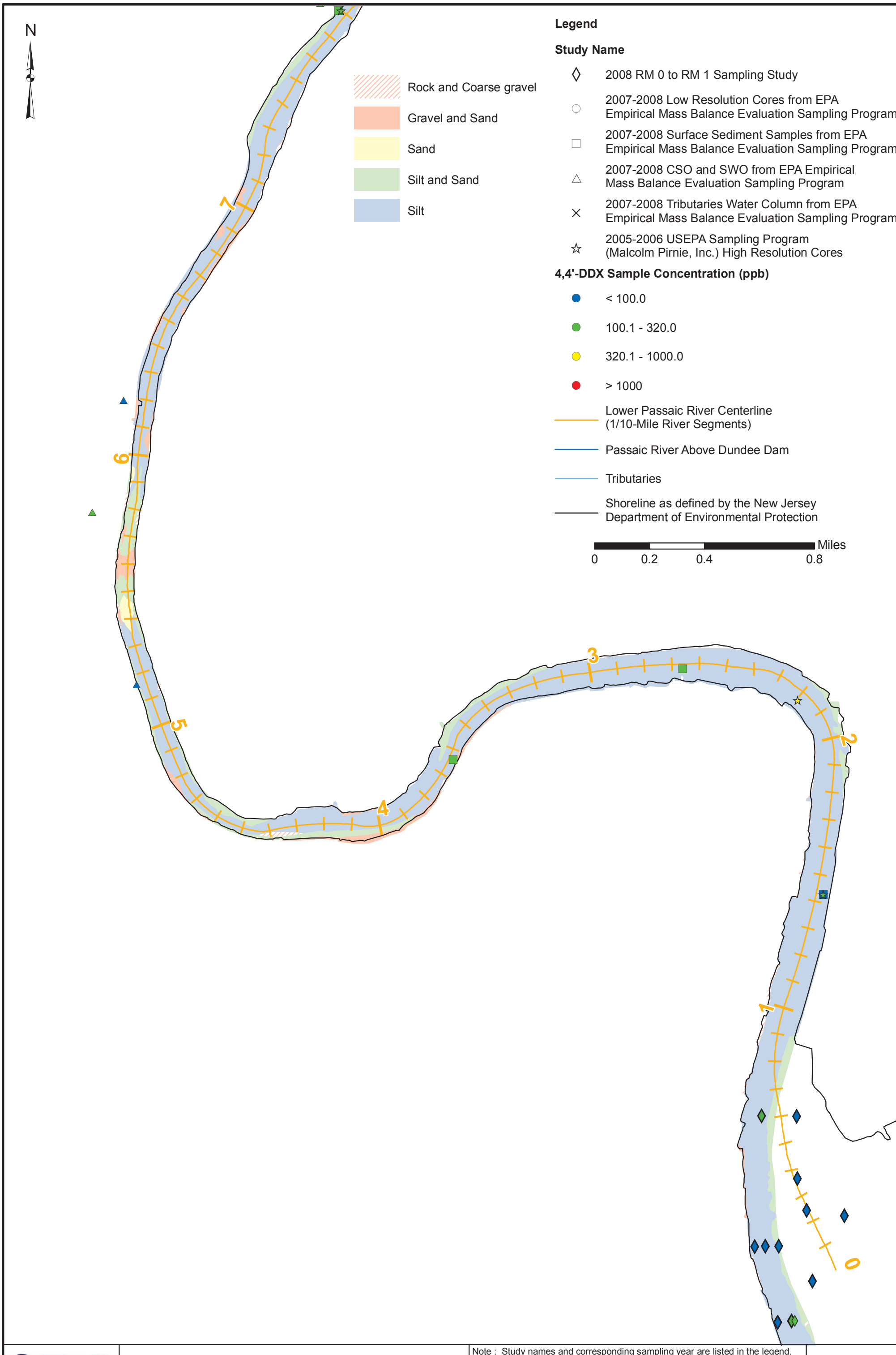
Total 4,4'-DDX Surface Sediment Samples from 2005 to 2008

Lower Passaic River Restoration Project

Note : Study names and corresponding sampling year are listed in the legend. Samples represent either sediment grab samples or the top segment of a sediment core. Because each study provided a different definition for "surface sediments," the samples plotted on this figure generally represent sediments from a depth of 0 foot to less than 1 foot. If samples are plotted at the same location, samples from the latest sampling event were plotted on top. Duplicate samples were averaged before plotting.

Figure 14-3e2

September 2008



Total 4,4'-DDX Surface Sediment Samples from 2005 to 2008

Lower Passaic River Restoration Project

Note : Study names and corresponding sampling year are listed in the legend. Samples represent either sediment grab samples or the top segment of a sediment core. Because each study provided a different definition for "surface sediments," the samples plotted on this figure generally represent sediments from a depth of 0 foot to less than 1 foot. If samples are plotted at the same location, samples from the latest sampling event were plotted on top. Duplicate samples were averaged before plotting.

Figure 14-3e3

September 2008

N

17

16

15

14

13

12

Saddle River

Third River

Rock and Coarse gravel

Gravel and Sand

Sand

Silt and Sand

Silt

Legend

Study Name

- 2008 RM 0 to RM 1 Sampling Study
- 2007-2008 Low Resolution Cores from EPA Empirical Mass Balance Evaluation Sampling Program
- 2007-2008 Surface Sediment Samples from EPA Empirical Mass Balance Evaluation Sampling Program
- 2007-2008 CSO and SWO from EPA Empirical Mass Balance Evaluation Sampling Program
- 2007-2008 Tributaries Water Column from EPA Empirical Mass Balance Evaluation Sampling Program
- 2005-2006 USEPA Sampling Program (Malcolm Pirnie, Inc.) High Resolution Cores

Total Chlordane Sample Concentration (ppb)

- < 100.0
- 100.1 - 320.0
- > 320.0

- Lower Passaic River Centerline (1/10-Mile River Segments)
- Passaic River Above Dundee Dam
- Tributaries
- Shoreline as defined by the New Jersey Department of Environmental Protection

Miles

0 0.25 0.5 1

US Army Corps of Engineers

Total Chlordane Surface Sediment Samples from 2005 to 2008

Lower Passaic River Restoration Project

Note : Study names and corresponding sampling year are listed in the legend. Samples represent either sediment grab samples or the top segment of a sediment core. Because each study provided a different definition for "surface sediments," the samples plotted on this figure generally represent sediments from a depth of 0 foot to less than 1 foot. If samples are plotted at the same location, samples from the latest sampling event were plotted on top. Duplicate samples were averaged before plotting.

Figure 14-3f1

September 2008

N

Third River

Second River

13

12

11

10

9

8

Legend

Study Name

- 2008 RM 0 to RM 1 Sampling Study
- 2007-2008 Low Resolution Cores from EPA Empirical Mass Balance Evaluation Sampling Program
- 2007-2008 Surface Sediment Samples from EPA Empirical Mass Balance Evaluation Sampling Program
- 2007-2008 CSO and SWO from EPA Empirical Mass Balance Evaluation Sampling Program
- 2007-2008 Tributaries Water Column from EPA Empirical Mass Balance Evaluation Sampling Program
- 2005-2006 USEPA Sampling Program (Malcolm Pirnie, Inc.) High Resolution Cores

Total Chlordane Sample Concentration (ppb)

- < 100.0
- 100.1 - 320.0
- > 320.0
- Lower Passaic River Centerline (1/10-Mile River Segments)
- Passaic River Above Dundee Dam
- Tributaries
- Shoreline as defined by the New Jersey Department of Environmental Protection
- Rock and Coarse gravel
- Gravel and Sand
- Sand
- Silt and Sand
- Silt

Miles

0 0.25 0.5 1

US Army Corps of Engineers

Total Chlordane Surface Sediment Samples from 2005 to 2008

Lower Passaic River Restoration Project

Note : Study names and corresponding sampling year are listed in the legend. Samples represent either sediment grab samples or the top segment of a sediment core. Because each study provided a different definition for "surface sediments," the samples plotted on this figure generally represent sediments from a depth of 0 foot to less than 1 foot. If samples are plotted at the same location, samples from the latest sampling event were plotted on top. Duplicate samples were averaged before plotting.

Figure 14-3f2

September 2008

N

Rock and Coarse gravel
Gravel and Sand
Sand
Silt and Sand
Silt

Legend

Study Name

- 2008 RM 0 to RM 1 Sampling Study
- 2007-2008 Low Resolution Cores from EPA Empirical Mass Balance Evaluation Sampling Program
- 2007-2008 Surface Sediment Samples from EPA Empirical Mass Balance Evaluation Sampling Program
- 2007-2008 CSO and SWO from EPA Empirical Mass Balance Evaluation Sampling Program
- 2007-2008 Tributaries Water Column from EPA Empirical Mass Balance Evaluation Sampling Program
- 2005-2006 USEPA Sampling Program (Malcolm Pirnie, Inc.) High Resolution Cores

Total Chlordane Sample Concentration (ppb)

- < 100.0
- 100.1 - 320.0
- > 320.0

- Lower Passaic River Centerline (1/10-Mile River Segments)
- Passaic River Above Dundee Dam
- Tributaries
- Shoreline as defined by the New Jersey Department of Environmental Protection

Miles
0 0.25 0.5 1

US Army Corps of Engineers®

Total Chlordane Surface Sediment Samples from 2005 to 2008

Lower Passaic River Restoration Project

Note : Study names and corresponding sampling year are listed in the legend. Samples represent either sediment grab samples or the top segment of a sediment core. Because each study provided a different definition for "surface sediments," the samples plotted on this figure generally represent sediments from a depth of 0 foot to less than 1 foot. If samples are plotted at the same location, samples from the latest sampling event were plotted on top. Duplicate samples were averaged before plotting.

Figure 14-3f3

September 2008

N

17

16

15

14

13

12

Saddle River

Third River

Rock and Coarse gravel

Gravel and Sand

Sand

Silt and Sand

Silt

Legend

Study Name

- 2008 RM 0 to RM 1 Sampling Study
- 2007-2008 Low Resolution Cores from EPA Empirical Mass Balance Evaluation Sampling Program
- 2007-2008 Surface Sediment Samples from EPA Empirical Mass Balance Evaluation Sampling Program
- 2007-2008 CSO and SWO from EPA Empirical Mass Balance Evaluation Sampling Program
- 2007-2008 Tributaries Water Column from EPA Empirical Mass Balance Evaluation Sampling Program
- 2005-2006 USEPA Sampling Program (Malcolm Pirnie, Inc.) High Resolution Cores

Dieldrin Sample Concentrations (ppb)

- < 10.0
- 10.1 - 32.0
- 32.1 - 100.0
- > 100.0

- Lower Passaic River Centerline (1/10-Mile River Segments)
- Passaic River Above Dundee Dam
- Tributaries
- Shoreline as defined by the New Jersey Department of Environmental Protection

Miles

0 0.25 0.5 1

US Army Corps of Engineers

Dieldrin Surface Sediment Samples from 2005 to 2008

Lower Passaic River Restoration Project

Note : Study names and corresponding sampling year are listed in the legend. Samples represent either sediment grab samples or the top segment of a sediment core. Because each study provided a different definition for "surface sediments," the samples plotted on this figure generally represent sediments from a depth of 0 foot to less than 1 foot. If samples are plotted at the same location, samples from the latest sampling event were plotted on top. Duplicate samples were averaged before plotting.

Figure 14-3g1

September 2008

N

Third River

Second River

13

12

11

10

9

8

Legend

Study Name

- 2008 RM 0 to RM 1 Sampling Study
- 2007-2008 Low Resolution Cores from EPA Empirical Mass Balance Evaluation Sampling Program
- 2007-2008 Surface Sediment Samples from EPA Empirical Mass Balance Evaluation Sampling Program
- 2007-2008 CSO and SWO from EPA Empirical Mass Balance Evaluation Sampling Program
- 2007-2008 Tributaries Water Column from EPA Empirical Mass Balance Evaluation Sampling Program
- 2005-2006 USEPA Sampling Program (Malcolm Pirnie, Inc.) High Resolution Cores

Dieldrin Sample Concentrations (ppb)

- < 10.0
- 10.1 - 32.0
- 32.1 - 100.0
- > 100.0

- Lower Passaic River Centerline (1/10-Mile River Segments)
- Passaic River Above Dundee Dam
- Tributaries
- Shoreline as defined by the New Jersey Department of Environmental Protection

- Rock and Coarse gravel
- Gravel and Sand
- Sand
- Silt and Sand
- Silt

Miles

0 0.25 0.5 1

US Army Corps of Engineers

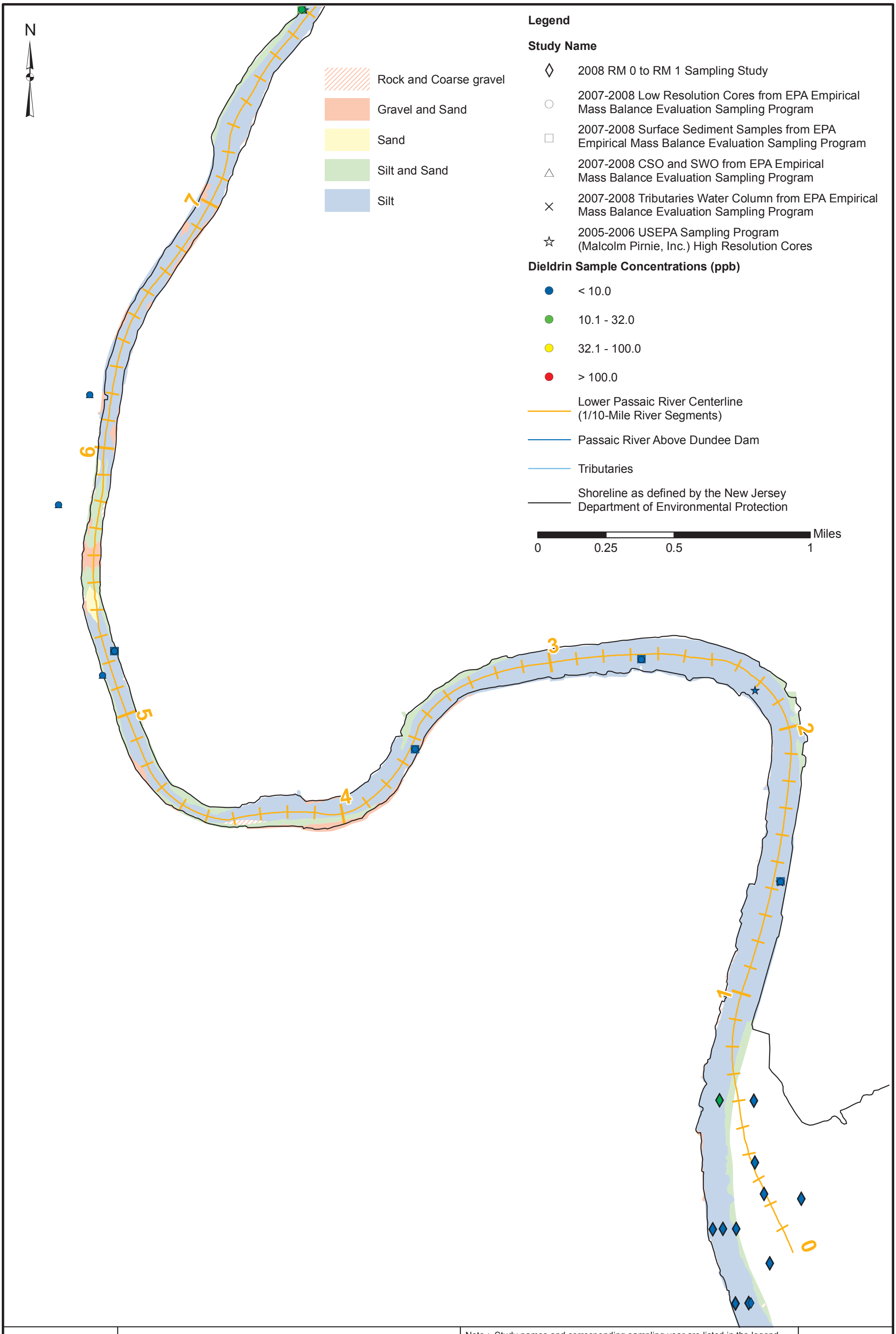
Dieldrin Surface Sediment Samples from 2005 to 2008

Lower Passaic River Restoration Project

Note : Study names and corresponding sampling year are listed in the legend. Samples represent either sediment grab samples or the top segment of a sediment core. Because each study provided a different definition for "surface sediments," the samples plotted on this figure generally represent sediments from a depth of 0 foot to less than 1 foot. If samples are plotted at the same location, samples from the latest sampling event were plotted on top. Duplicate samples were averaged before plotting.

Figure 14-3g2

September 2008



US Army Corps of Engineers®

Dieldrin Surface Sediment Samples from 2005 to 2008

Lower Passaic River Restoration Project

Note : Study names and corresponding sampling year are listed in the legend. Samples represent either sediment grab samples or the top segment of a sediment core. Because each study provided a different definition for "surface sediments," the samples plotted on this figure generally represent sediments from a depth of 0 foot to less than 1 foot. If samples are plotted at the same location, samples from the latest sampling event were plotted on top. Duplicate samples were averaged before plotting.

Figure 14-3g3

September 2008

N

17

16

15

14

13

12

Saddle River

Third River

Rock and Coarse gravel

Gravel and Sand

Sand

Silt and Sand

Silt

Legend

Study Name

- 2008 RM 0 to RM 1 Sampling Study
- 2007-2008 Low Resolution Cores from EPA Empirical Mass Balance Evaluation Sampling Program
- 2007-2008 Surface Sediment Samples from EPA Empirical Mass Balance Evaluation Sampling Program
- 2007-2008 CSO and SWO from EPA Empirical Mass Balance Evaluation Sampling Program
- 2007-2008 Tributaries Water Column from EPA Empirical Mass Balance Evaluation Sampling Program
- 2005-2006 USEPA Sampling Program (Malcolm Pirnie, Inc.) High Resolution Cores

Cadmium Sample Concentration (ppb)

- < 320.0
- 320.1 - 1000.0
- 1000.1 - 3200.0
- 3200.1 - 10000.0
- > 10,000

- Lower Passaic River Centerline (1/10-Mile River Segments)
- Passaic River Above Dundee Dam
- Tributaries
- Shoreline as defined by the New Jersey Department of Environmental Protection

Miles

0 0.25 0.5 1

US Army Corps of Engineers

Cadmium Surface Sediment Samples from 2005 to 2008

Lower Passaic River Restoration Project

Note : Study names and corresponding sampling year are listed in the legend. Samples represent either sediment grab samples or the top segment of a sediment core. Because each study provided a different definition for "surface sediments," the samples plotted on this figure generally represent sediments from a depth of 0 foot to less than 1 foot. If samples are plotted at the same location, samples from the latest sampling event were plotted on top. Duplicate samples were averaged before plotting.

Figure 14-3h1

September 2008

N

Third River

Second River

12

11

10

9

8

Legend

Study Name

- 2008 RM 0 to RM 1 Sampling Study
- 2007-2008 Low Resolution Cores from EPA Empirical Mass Balance Evaluation Sampling Program
- 2007-2008 Surface Sediment Samples from EPA Empirical Mass Balance Evaluation Sampling Program
- 2007-2008 CSO and SWO from EPA Empirical Mass Balance Evaluation Sampling Program
- 2007-2008 Tributaries Water Column from EPA Empirical Mass Balance Evaluation Sampling Program
- 2005-2006 USEPA Sampling Program (Malcolm Pirnie, Inc.) High Resolution Cores

Cadmium Sample Concentration (ppb)

- < 320.0
- 320.1 - 1000.0
- 1000.1 - 3200.0
- 3200.1 - 10000.0
- > 10,000

- Lower Passaic River Centerline (1/10-Mile River Segments)
- Passaic River Above Dundee Dam
- Tributaries
- Shoreline as defined by the New Jersey Department of Environmental Protection
- Rock and Coarse gravel
- Gravel and Sand
- Sand
- Silt and Sand
- Silt

Miles

0 0.25 0.5 1

US Army Corps of Engineers

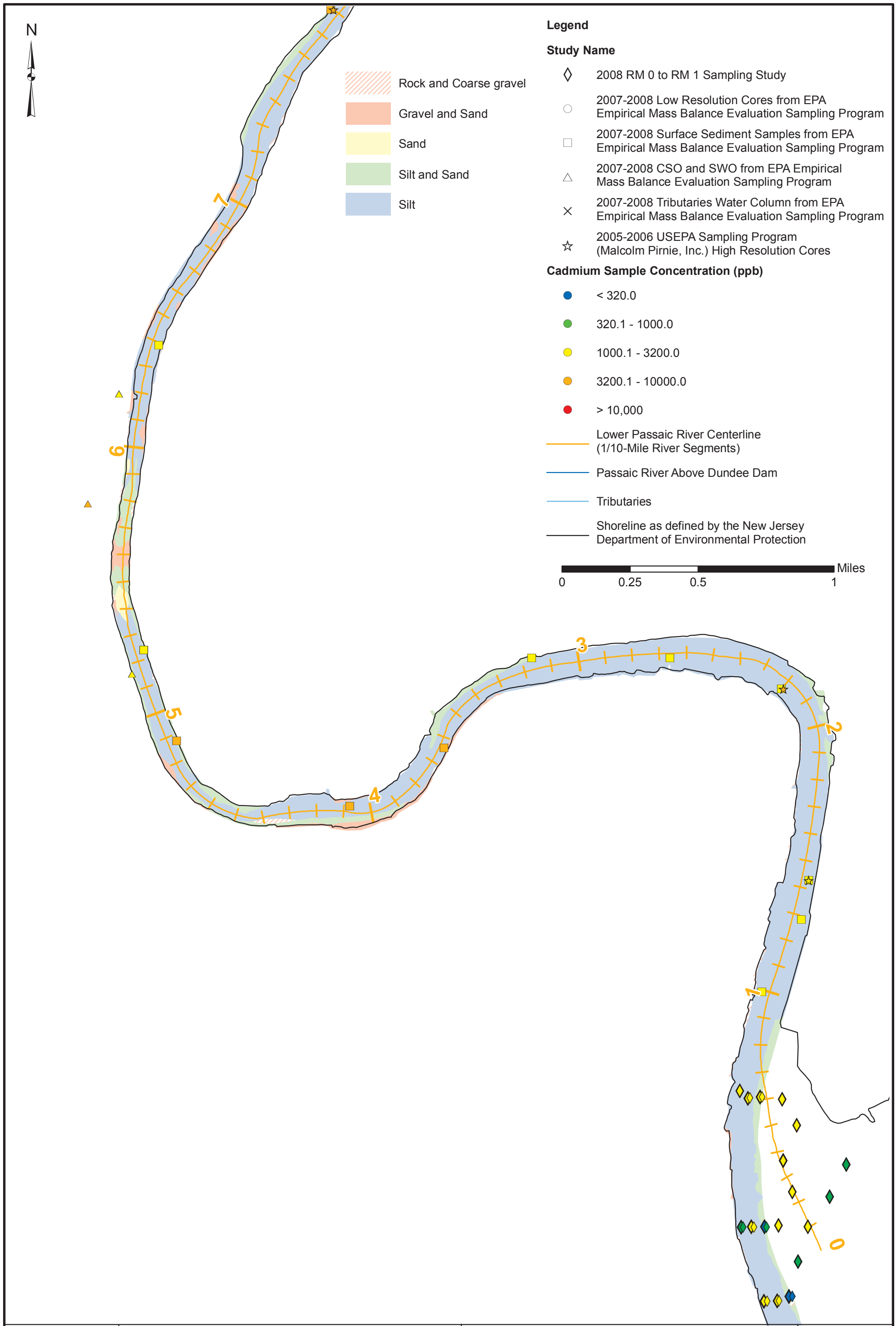
Cadmium Surface Sediment Samples from 2005 to 2008

Lower Passaic River Restoration Project

Note : Study names and corresponding sampling year are listed in the legend. Samples represent either sediment grab samples or the top segment of a sediment core. Because each study provided a different definition for "surface sediments," the samples plotted on this figure generally represent sediments from a depth of 0 foot to less than 1 foot. If samples are plotted at the same location, samples from the latest sampling event were plotted on top. Duplicate samples were averaged before plotting.

Figure 14-3h2

September 2008



Cadmium Surface Sediment Samples from 2005 to 2008

Lower Passaic River Restoration Project

Note : Study names and corresponding sampling year are listed in the legend. Samples represent either sediment grab samples or the top segment of a sediment core. Because each study provided a different definition for "surface sediments," the samples plotted on this figure generally represent sediments from a depth of 0 foot to less than 1 foot. If samples are plotted at the same location, samples from the latest sampling event were plotted on top. Duplicate samples were averaged before plotting.

Figure 14-3h3

September 2008

N

17

16

15

14

13

12

Saddle River

Third River

Rock and Coarse gravel

Gravel and Sand

Sand

Silt and Sand

Silt

Legend

Study Name

- 2008 RM 0 to RM 1 Sampling Study
- 2007-2008 Low Resolution Cores from EPA Empirical Mass Balance Evaluation Sampling Program
- 2007-2008 Surface Sediment Samples from EPA Empirical Mass Balance Evaluation Sampling Program
- 2007-2008 CSO and SWO from EPA Empirical Mass Balance Evaluation Sampling Program
- 2007-2008 Tributaries Water Column from EPA Empirical Mass Balance Evaluation Sampling Program
- 2005-2006 USEPA Sampling Program (Malcolm Pirnie, Inc.) High Resolution Cores

Chromium Sample Concentration (ppm)

- < 32.00
- 32.01 - 100.00
- 100.01 - 320.00
- 320.01 - 1000.00
- > 1000

Lower Passaic River Centerline (1/10-Mile River Segments)

Passaic River Above Dundee Dam

Tributaries

Shoreline as defined by the New Jersey Department of Environmental Protection

Miles

0 0.25 0.5 1

US Army Corps of Engineers

Chromium Surface Sediment Samples from 2005 to 2008

Lower Passaic River Restoration Project

Note : Study names and corresponding sampling year are listed in the legend. Samples represent either sediment grab samples or the top segment of a sediment core. Because each study provided a different definition for "surface sediments," the samples plotted on this figure generally represent sediments from a depth of 0 foot to less than 1 foot. If samples are plotted at the same location, samples from the latest sampling event were plotted on top. Duplicate samples were averaged before plotting.

Figure 14-3i1

September 2008

N

Third River

Second River

13

12

11

10

9

8

Legend

Study Name

- 2008 RM 0 to RM 1 Sampling Study
- 2007-2008 Low Resolution Cores from EPA Empirical Mass Balance Evaluation Sampling Program
- 2007-2008 Surface Sediment Samples from EPA Empirical Mass Balance Evaluation Sampling Program
- 2007-2008 CSO and SWO from EPA Empirical Mass Balance Evaluation Sampling Program
- 2007-2008 Tributaries Water Column from EPA Empirical Mass Balance Evaluation Sampling Program
- 2005-2006 USEPA Sampling Program (Malcolm Pirnie, Inc.) High Resolution Cores

Chromium Sample Concentration (ppm)

- < 32.00
- 32.01 - 100.00
- 100.01 - 320.00
- 320.01 - 1000.00
- > 1000

- Lower Passaic River Centerline (1/10-Mile River Segments)
- Passaic River Above Dundee Dam
- Tributaries
- Shoreline as defined by the New Jersey Department of Environmental Protection
- Rock and Coarse gravel
- Gravel and Sand
- Sand
- Silt and Sand
- Silt

Miles
0 0.25 0.5 1

US Army Corps of Engineers

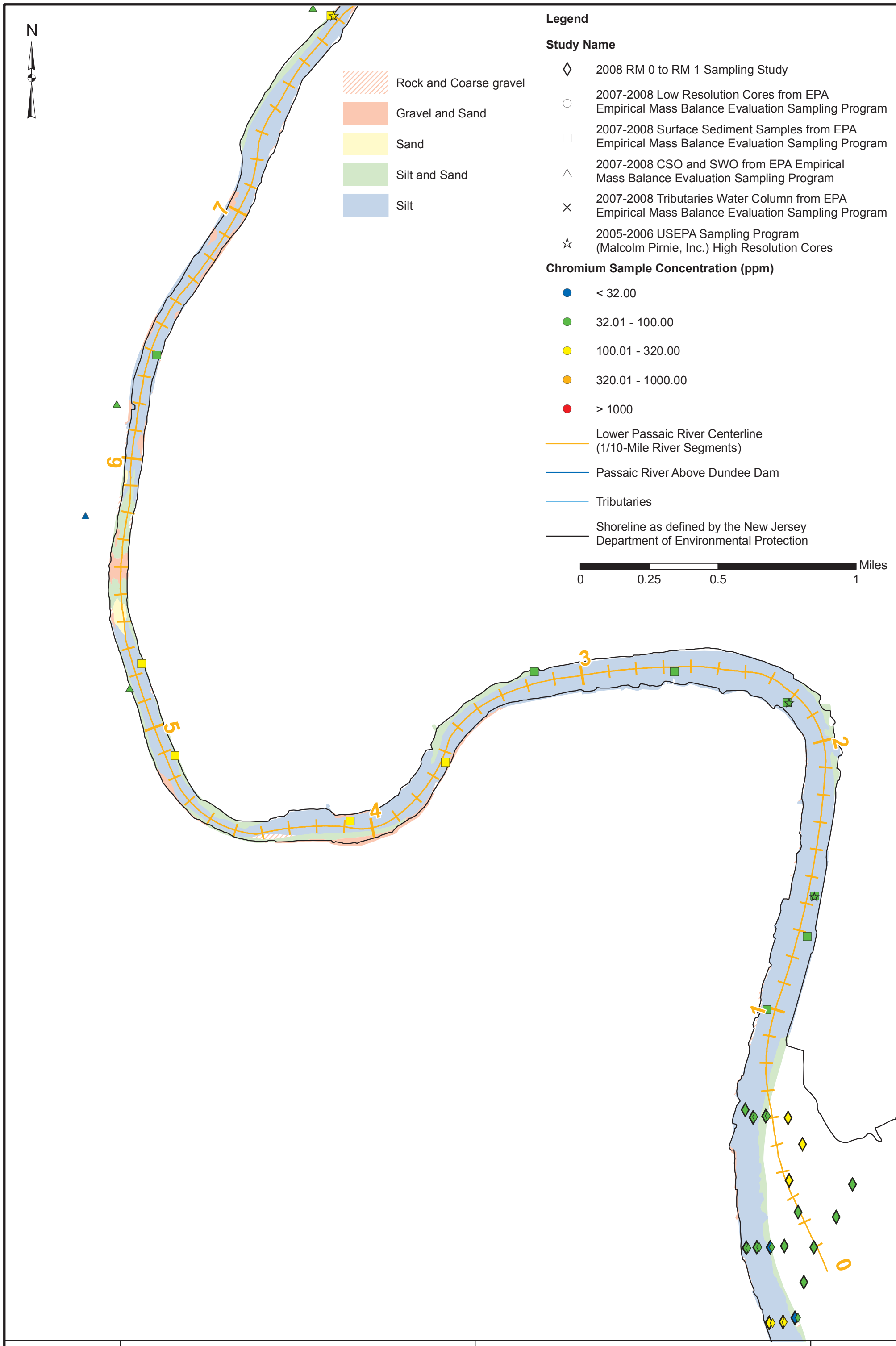
Chromium Surface Sediment Samples from 2005 to 2008

Lower Passaic River Restoration Project

Note : Study names and corresponding sampling year are listed in the legend. Samples represent either sediment grab samples or the top segment of a sediment core. Because each study provided a different definition for "surface sediments," the samples plotted on this figure generally represent sediments from a depth of 0 foot to less than 1 foot. If samples are plotted at the same location, samples from the latest sampling event were plotted on top. Duplicate samples were averaged before plotting.

Figure 14-3i2

September 2008



Chromium Surface Sediment Samples from 2005 to 2008

Lower Passaic River Restoration Project

Note : Study names and corresponding sampling year are listed in the legend. Samples represent either sediment grab samples or the top segment of a sediment core. Because each study provided a different definition for "surface sediments," the samples plotted on this figure generally represent sediments from a depth of 0 foot to less than 1 foot. If samples are plotted at the same location, samples from the latest sampling event were plotted on top. Duplicate samples were averaged before plotting.

Figure 14-3i3

September 2008

N

17

16

15

14

13

12

Saddle River

Third River

Rock and Coarse gravel

Gravel and Sand

Sand

Silt and Sand

Silt

Legend

Study Name

- 2008 RM 0 to RM 1 Sampling Study
- 2007-2008 Low Resolution Cores from EPA Empirical Mass Balance Evaluation Sampling Program
- 2007-2008 Surface Sediment Samples from EPA Empirical Mass Balance Evaluation Sampling Program
- 2007-2008 CSO and SWO from EPA Empirical Mass Balance Evaluation Sampling Program
- 2007-2008 Tributaries Water Column from EPA Empirical Mass Balance Evaluation Sampling Program
- 2005-2006 USEPA Sampling Program (Malcolm Pirnie, Inc.) High Resolution Cores

Copper Sample Concentration (ppm)

- < 32.00
- 32.01 - 100.00
- 100.01 - 320.00
- > 320.00

- Lower Passaic River Centerline (1/10-Mile River Segments)
- Passaic River Above Dundee Dam
- Tributaries
- Shoreline as defined by the New Jersey Department of Environmental Protection

Miles

0 0.25 0.5 1

US Army Corps of Engineers

Copper Surface Sediment Samples from 2005 to 2008

Lower Passaic River Restoration Project

Note : Study names and corresponding sampling year are listed in the legend. Samples represent either sediment grab samples or the top segment of a sediment core. Because each study provided a different definition for "surface sediments," the samples plotted on this figure generally represent sediments from a depth of 0 foot to less than 1 foot. If samples are plotted at the same location, samples from the latest sampling event were plotted on top. Duplicate samples were averaged before plotting.

Figure 14-3j1

September 2008

N

Third River

Second River

13

12

11

10

9

8

Legend

Study Name

- 2008 RM 0 to RM 1 Sampling Study
- 2007-2008 Low Resolution Cores from EPA Empirical Mass Balance Evaluation Sampling Program
- 2007-2008 Surface Sediment Samples from EPA Empirical Mass Balance Evaluation Sampling Program
- 2007-2008 CSO and SWO from EPA Empirical Mass Balance Evaluation Sampling Program
- 2007-2008 Tributaries Water Column from EPA Empirical Mass Balance Evaluation Sampling Program
- 2005-2006 USEPA Sampling Program (Malcolm Pirnie, Inc.) High Resolution Cores

Copper Sample Concentration (ppm)

- < 32.00
- 32.01 - 100.00
- 100.01 - 320.00
- > 320.00
- Lower Passaic River Centerline (1/10-Mile River Segments)
- Passaic River Above Dundee Dam
- Tributaries
- Shoreline as defined by the New Jersey Department of Environmental Protection
- Rock and Coarse gravel
- Gravel and Sand
- Sand
- Silt and Sand
- Silt

Miles

0 0.25 0.5 1

US Army Corps of Engineers

Copper Surface Sediment Samples from 2005 to 2008

Lower Passaic River Restoration Project

Note : Study names and corresponding sampling year are listed in the legend. Samples represent either sediment grab samples or the top segment of a sediment core. Because each study provided a different definition for "surface sediments," the samples plotted on this figure generally represent sediments from a depth of 0 foot to less than 1 foot. If samples are plotted at the same location, samples from the latest sampling event were plotted on top. Duplicate samples were averaged before plotting.

Figure 14-3j2

September 2008

N

Rock and Coarse gravel

Gravel and Sand

Sand

Silt and Sand

Silt

Legend

Study Name

- 2008 RM 0 to RM 1 Sampling Study
- 2007-2008 Low Resolution Cores from EPA Empirical Mass Balance Evaluation Sampling Program
- 2007-2008 Surface Sediment Samples from EPA Empirical Mass Balance Evaluation Sampling Program
- 2007-2008 CSO and SWO from EPA Empirical Mass Balance Evaluation Sampling Program
- 2007-2008 Tributaries Water Column from EPA Empirical Mass Balance Evaluation Sampling Program
- 2005-2006 USEPA Sampling Program (Malcolm Pirnie, Inc.) High Resolution Cores

Copper Sample Concentration (ppm)

- < 32.00
- 32.01 - 100.00
- 100.01 - 320.00
- > 320.00

Lower Passaic River Centerline (1/10-Mile River Segments)

Passaic River Above Dundee Dam

Tributaries

Shoreline as defined by the New Jersey Department of Environmental Protection

0 0.25 0.5 1 Miles

US Army Corps of Engineers

Copper Surface Sediment Samples from 2005 to 2008

Lower Passaic River Restoration Project

Note : Study names and corresponding sampling year are listed in the legend. Samples represent either sediment grab samples or the top segment of a sediment core. Because each study provided a different definition for "surface sediments," the samples plotted on this figure generally represent sediments from a depth of 0 foot to less than 1 foot. If samples are plotted at the same location, samples from the latest sampling event were plotted on top. Duplicate samples were averaged before plotting.

Figure 14-3j3

September 2008

N

17

16

15

14

13

12

Saddle River

Third River

Rock and Coarse gravel

Gravel and Sand

Sand

Silt and Sand

Silt

Legend

Study Name

- 2008 RM 0 to RM 1 Sampling Study
- 2007-2008 Low Resolution Cores from EPA Empirical Mass Balance Evaluation Sampling Program
- 2007-2008 Surface Sediment Samples from EPA Empirical Mass Balance Evaluation Sampling Program
- 2007-2008 CSO and SWO from EPA Empirical Mass Balance Evaluation Sampling Program
- 2007-2008 Tributaries Water Column from EPA Empirical Mass Balance Evaluation Sampling Program
- 2005-2006 USEPA Sampling Program (Malcolm Pirnie, Inc.) High Resolution Cores

Lead Sample Concentration (ppm)

- < 100.0
- 100.1 - 320.0
- > 320.0

Lower Passaic River Centerline (1/10-Mile River Segments)

Passaic River Above Dundee Dam

Tributaries

Shoreline as defined by the New Jersey Department of Environmental Protection

0 0.25 0.5 1 Miles

US Army Corps of Engineers®

Lead Surface Sediment Samples from 2005 to 2008

Lower Passaic River Restoration Project

Note : Study names and corresponding sampling year are listed in the legend. Samples represent either sediment grab samples or the top segment of a sediment core. Because each study provided a different definition for "surface sediments," the samples plotted on this figure generally represent sediments from a depth of 0 foot to less than 1 foot. If samples are plotted at the same location, samples from the latest sampling event were plotted on top. Duplicate samples were averaged before plotting.

Figure 14-3k1

September 2008

N

Third River

Second River

13

12

11

10

9

8

Legend

Study Name

- 2008 RM 0 to RM 1 Sampling Study
- 2007-2008 Low Resolution Cores from EPA Empirical Mass Balance Evaluation Sampling Program
- 2007-2008 Surface Sediment Samples from EPA Empirical Mass Balance Evaluation Sampling Program
- 2007-2008 CSO and SWO from EPA Empirical Mass Balance Evaluation Sampling Program
- 2007-2008 Tributaries Water Column from EPA Empirical Mass Balance Evaluation Sampling Program
- 2005-2006 USEPA Sampling Program (Malcolm Pirnie, Inc.) High Resolution Cores

Lead Sample Concentration (ppm)

- < 100.0
- 100.1 - 320.0
- > 320.0

- Lower Passaic River Centerline (1/10-Mile River Segments)
- Passaic River Above Dundee Dam
- Tributaries
- Shoreline as defined by the New Jersey Department of Environmental Protection

- Rock and Coarse gravel
- Gravel and Sand
- Sand
- Silt and Sand
- Silt

Miles
0 0.25 0.5 1

US Army Corps of Engineers

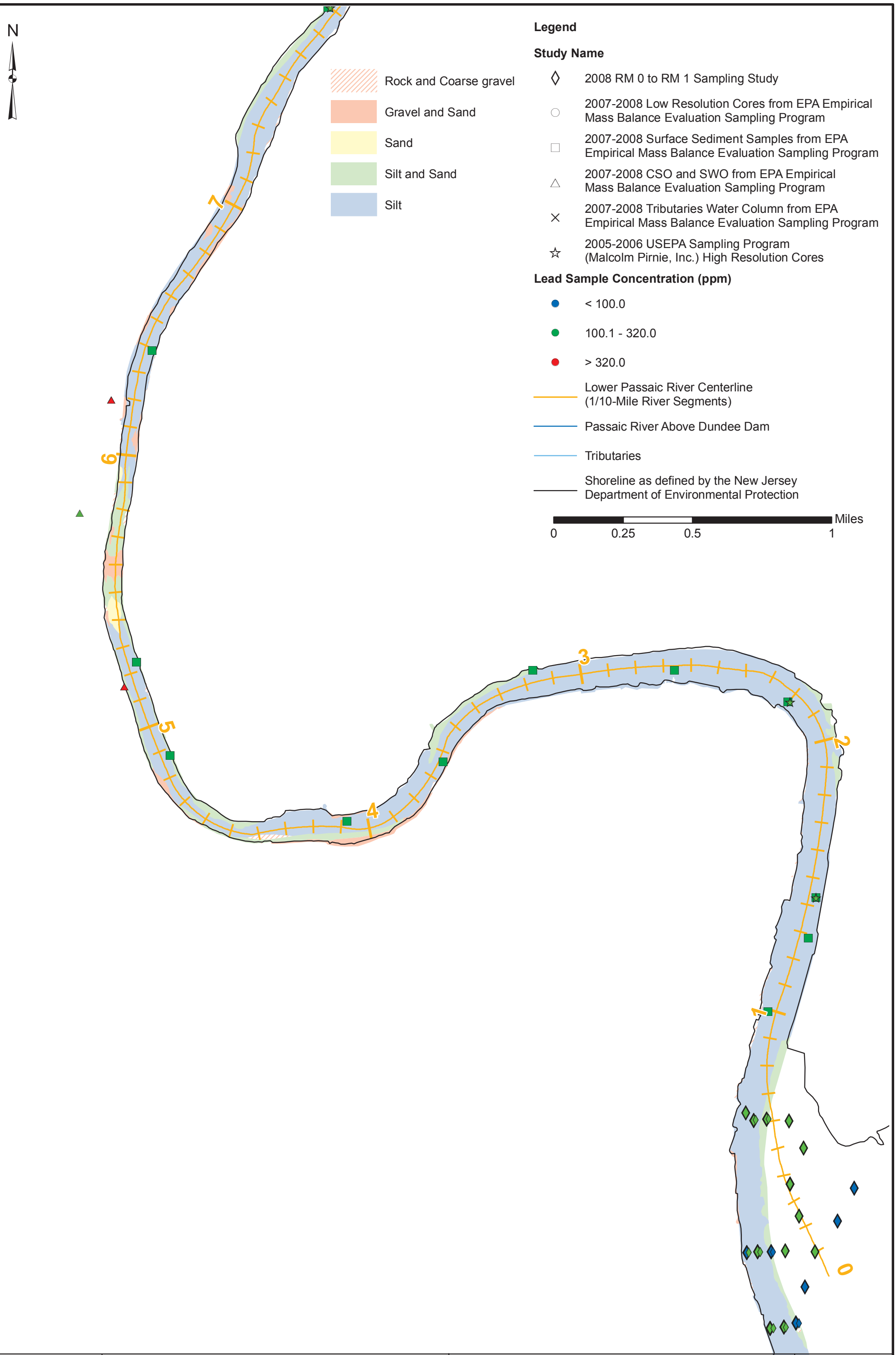
Lead Surface Sediment Samples from 2005 to 2008

Lower Passaic River Restoration Project

Note : Study names and corresponding sampling year are listed in the legend. Samples represent either sediment grab samples or the top segment of a sediment core. Because each study provided a different definition for "surface sediments," the samples plotted on this figure generally represent sediments from a depth of 0 foot to less than 1 foot. If samples are plotted at the same location, samples from the latest sampling event were plotted on top. Duplicate samples were averaged before plotting.

Figure 14-3k2

September 2008



Lead Surface Sediment Samples from 2005 to 2008

Lower Passaic River Restoration Project

Note : Study names and corresponding sampling year are listed in the legend. Samples represent either sediment grab samples or the top segment of a sediment core. Because each study provided a different definition for "surface sediments," the samples plotted on this figure generally represent sediments from a depth of 0 foot to less than 1 foot. If samples are plotted at the same location, samples from the latest sampling event were plotted on top. Duplicate samples were averaged before plotting.

Figure 14-3k3

September 2008

N

17

16

15

14

13

12

Saddle River

Third River

Rock and Coarse gravel

Gravel and Sand

Sand

Silt and Sand

Silt

Legend

Study Name

- 2008 RM 0 to RM 1 Sampling Study
- 2007-2008 Low Resolution Cores from EPA Empirical Mass Balance Evaluation Sampling Program
- 2007-2008 Surface Sediment Samples from EPA Empirical Mass Balance Evaluation Sampling Program
- 2007-2008 CSO and SWO from EPA Empirical Mass Balance Evaluation Sampling Program
- 2007-2008 Tributaries Water Column from EPA Empirical Mass Balance Evaluation Sampling Program
- 2005-2006 USEPA Sampling Program (Malcolm Pirnie, Inc.) High Resolution Cores

Mercury Sample Concentration (ppm)

- < 1.00
- 1.01 - 3.20
- 3.21 - 10.00
- > 10.00

Lower Passaic River Centerline (1/10-Mile River Segments)

Passaic River Above Dundee Dam

Tributaries

Shoreline as defined by the New Jersey Department of Environmental Protection

Miles

0 0.25 0.5 1

US Army Corps of Engineers

Mercury Surface Sediment Samples from 2005 to 2008

Lower Passaic River Restoration Project

Note : Study names and corresponding sampling year are listed in the legend. Samples represent either sediment grab samples or the top segment of a sediment core. Because each study provided a different definition for "surface sediments," the samples plotted on this figure generally represent sediments from a depth of 0 foot to less than 1 foot. If samples are plotted at the same location, samples from the latest sampling event were plotted on top. Duplicate samples were averaged before plotting.

Figure 14-3l1

September 2008

N

Third River

Second River

13

12

11

10

9

8

Legend

Study Name

- 2008 RM 0 to RM 1 Sampling Study
- 2007-2008 Low Resolution Cores from EPA Empirical Mass Balance Evaluation Sampling Program
- 2007-2008 Surface Sediment Samples from EPA Empirical Mass Balance Evaluation Sampling Program
- 2007-2008 CSO and SWO from EPA Empirical Mass Balance Evaluation Sampling Program
- 2007-2008 Tributaries Water Column from EPA Empirical Mass Balance Evaluation Sampling Program
- 2005-2006 USEPA Sampling Program (Malcolm Pirnie, Inc.) High Resolution Cores

Mercury Sample Concentration (ppm)

- < 1.00
- 1.01 - 3.20
- 3.21 - 10.00
- > 10.00

- Lower Passaic River Centerline (1/10-Mile River Segments)
- Passaic River Above Dundee Dam
- Tributaries
- Shoreline as defined by the New Jersey Department of Environmental Protection

- Rock and Coarse gravel
- Gravel and Sand
- Sand
- Silt and Sand
- Silt

Miles

0 0.25 0.5 1

US Army Corps of Engineers

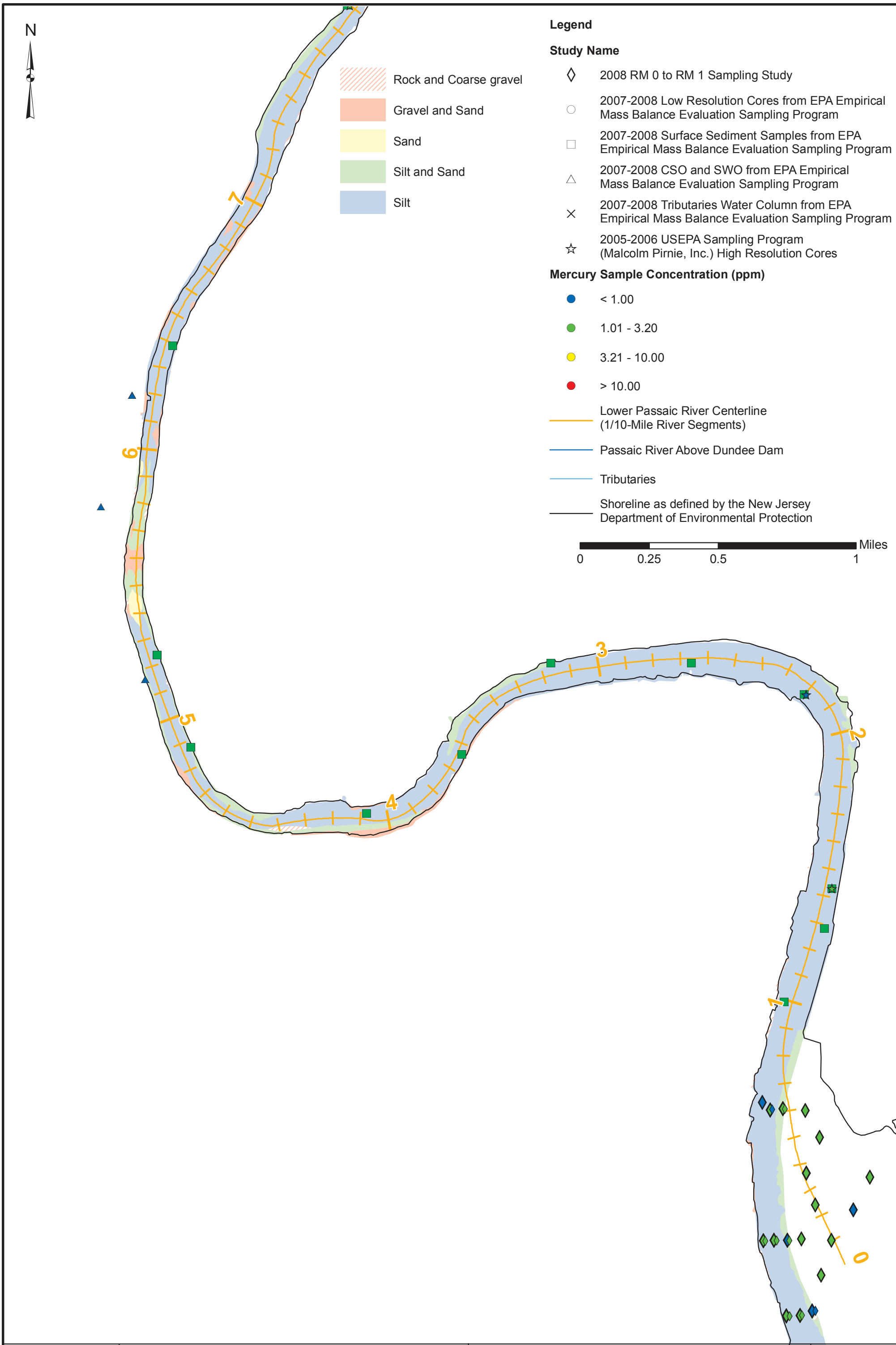
Mercury Surface Sediment Samples from 2005 to 2008

Lower Passaic River Restoration Project

Note : Study names and corresponding sampling year are listed in the legend. Samples represent either sediment grab samples or the top segment of a sediment core. Because each study provided a different definition for "surface sediments," the samples plotted on this figure generally represent sediments from a depth of 0 foot to less than 1 foot. If samples are plotted at the same location, samples from the latest sampling event were plotted on top. Duplicate samples were averaged before plotting.

Figure 14-3l2

September 2008



Mercury Surface Sediment Samples from 2005 to 2008

Lower Passaic River Restoration Project

Note : Study names and corresponding sampling year are listed in the legend. Samples represent either sediment grab samples or the top segment of a sediment core. Because each study provided a different definition for "surface sediments," the samples plotted on this figure generally represent sediments from a depth of 0 foot to less than 1 foot. If samples are plotted at the same location, samples from the latest sampling event were plotted on top. Duplicate samples were averaged before plotting.

Figure 14-3l3

September 2008

N

17

16

15

14

13

12

Saddle River

Third River

Legend

- 2008 RM 0 to RM 1 Sampling Study
- 2007-2008 Surface Sediment Samples from EPA Empirical Mass Balance Evaluation Sampling Program
- 2005-2006 USEPA Sampling Program (Malcolm Pirnie, Inc.) High Resolution Cores

Total Bird TEQ (ppb)

- < 0.032
- 0.032 - 0.100
- 0.100 - 0.320
- 0.320 - 1.000
- > 1.00
- Lower Passaic River Centerline (1/10-Mile River Segments)
- Passaic River Above Dundee Dam
- Tributaries
- Shoreline as defined by the New Jersey Department of Environmental Protection
- Rock and Coarse gravel
- Gravel and Sand
- Sand
- Silt and Sand
- Silt

Miles
0 0.25 0.5 1

US Army Corps of Engineers

Total Bird TEQ Surface Sediment Samples from 2005 to 2008

Lower Passaic River Restoration Project

Note : Study names and corresponding sampling year are listed in the legend. Samples represent either sediment grab samples or the top segment of a sediment core.If samples are plotted at the same location, samples from the latest sampling event were plotted on top.

Figure 14-3m1

September 2008

N

Third River

Second River

12

11

10

9

8

Legend

- 2008 RM 0 to RM 1 Sampling Study
- 2007-2008 Surface Sediment Samples from EPA Empirical Mass Balance Evaluation Sampling Program
- 2005-2006 USEPA Sampling Program (Malcolm Pirnie, Inc.) High Resolution Cores

Total Bird TEQ (ppb)

- < 0.032
- 0.032 - 0.100
- 0.100 - 0.320
- 0.320 - 1.000
- > 1.00

- Lower Passaic River Centerline (1/10-Mile River Segments)
- Passaic River Above Dundee Dam
- Tributaries
- Shoreline as defined by the New Jersey Department of Environmental Protection

- Rock and Coarse gravel
- Gravel and Sand
- Sand
- Silt and Sand
- Silt

Miles
0 0.25 0.5 1

US Army Corps of Engineers

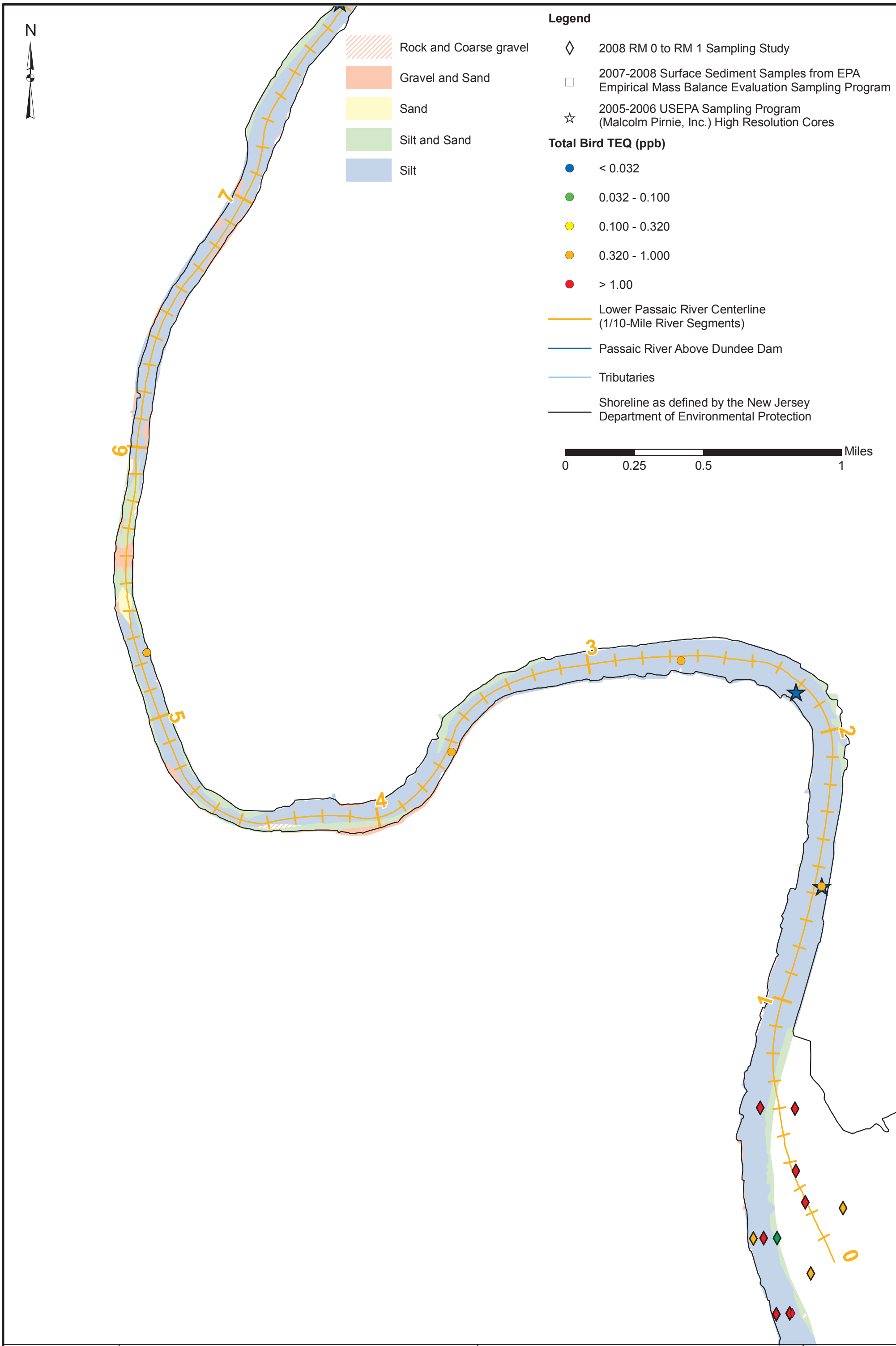
Total Bird TEQ Surface Sediment Samples from 2005 to 2008

Lower Passaic River Restoration Project

Note : Study names and corresponding sampling year are listed in the legend. Samples represent either sediment grab samples or the top segment of a sediment core.If samples are plotted at the same location, samples from the latest sampling event were plotted on top.

Figure 14-3m2

September 2008



Total Bird TEQ Surface Sediment Samples from 2005 to 2008

Lower Passaic River Restoration Project

Note : Study names and corresponding sampling year are listed in the legend. Samples represent either sediment grab samples or the top segment of a sediment core.If samples are plotted at the same location, samples from the latest sampling event were plotted on top.

Figure 14-3m3

September 2008

N

17

16

15

14

13

12

Saddle River

Third River

Legend

Study Name

- 2008 RM 0 to RM 1 Sampling Study
- 2007-2008 Surface Sediment Samples from EPA Empirical Mass Balance Evaluation Sampling Program
- 2005-2006 USEPA Sampling Program (Malcolm Pirnie, Inc.) High Resolution Cores

Total Fish TEQ (ppb)

- < 0.010
- 0.011 - 0.032
- 0.033 - 0.100
- 0.101 - 0.320
- > 0.32

- Lower Passaic River Centerline (1/10-Mile River Segments)
- Passaic River Above Dundee Dam
- Tributaries
- Shoreline as defined by the New Jersey Department of Environmental Protection
- Rock and Coarse gravel
- Gravel and Sand
- Sand
- Silt and Sand
- Silt

0 0.25 0.5 1 Miles

US Army Corps of Engineers

Total Fish TEQ Surface Sediment Samples from 2005 to 2008

Lower Passaic River Restoration Project

Note : Study names and corresponding sampling year are listed in the legend. Samples represent either sediment grab samples or the top segment of a sediment core.If samples are plotted at the same location, samples from the latest sampling event were plotted on top.

Figure 14-3n1

September 2008

N

Third River

Second River

13

12

11

10

9

8

Legend

Study Name

- 2008 RM 0 to RM 1 Sampling Study
- 2007-2008 Surface Sediment Samples from EPA Empirical Mass Balance Evaluation Sampling Program
- 2005-2006 USEPA Sampling Program (Malcolm Pirnie, Inc.) High Resolution Cores

Total Fish TEQ (ppb)

- < 0.010
- 0.011 - 0.032
- 0.033 - 0.100
- 0.101 - 0.320
- > 0.32

- Lower Passaic River Centerline (1/10-Mile River Segments)
- Passaic River Above Dundee Dam
- Tributaries
- Shoreline as defined by the New Jersey Department of Environmental Protection

- Rock and Coarse gravel
- Gravel and Sand
- Sand
- Silt and Sand
- Silt

Miles
0 0.25 0.5 1

US Army Corps of Engineers

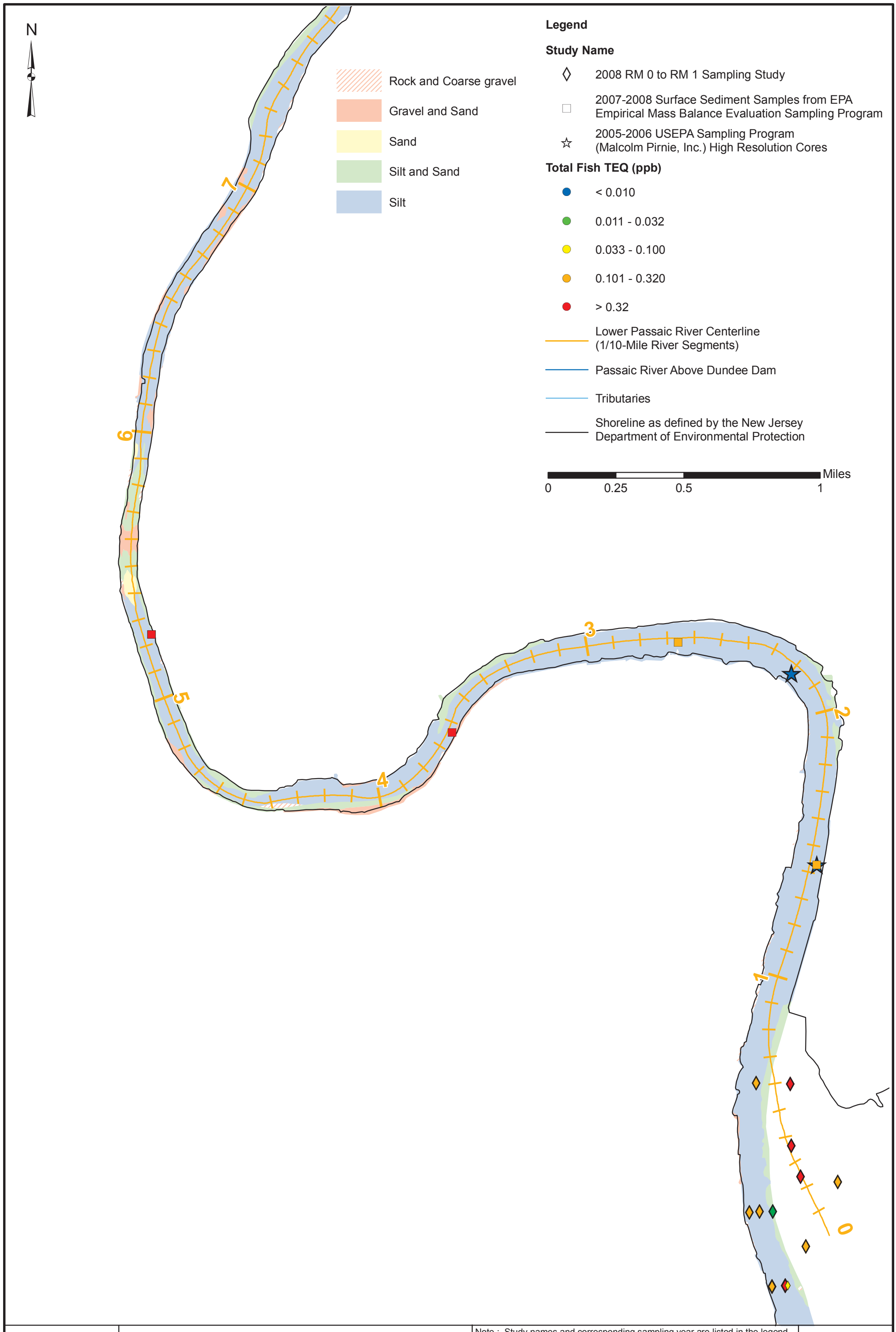
Total Fish TEQ Surface Sediment Samples from 2005 to 2008

Lower Passaic River Restoration Project

Note : Study names and corresponding sampling year are listed in the legend. Samples represent either sediment grab samples or the top segment of a sediment core.If samples are plotted at the same location, samples from the latest sampling event were plotted on top.

Figure 14-3n2

September 2008



Total Fish TEQ Surface Sediment Samples from 2005 to 2008

Lower Passaic River Restoration Project

Note : Study names and corresponding sampling year are listed in the legend. Samples represent either sediment grab samples or the top segment of a sediment core.If samples are plotted at the same location, samples from the latest sampling event were plotted on top.

Figure 14-3n3

September 2008

N

17

16

15

14

13

12

Saddle River

Third River

Legend

Study Name

- ◊ 2008 RM 0 to RM 1 Sampling Study
- □ 2007-2008 Surface Sediment Samples from EPA Empirical Mass Balance Evaluation Sampling Program
- ☆ 2005-2006 USEPA Sampling Program (Malcolm Pirnie, Inc.) High Resolution Cores

Total Mammal TEQ (ppb)

- < 0.032
- 0.033 - 0.100
- 0.101 - 0.320
- > 0.32

- Lower Passaic River Centerline (1/10-Mile River Segments)
- Passaic River Above Dundee Dam
- Tributaries
- Shoreline as defined by the New Jersey Department of Environmental Protection

- Rock and Coarse gravel
- Gravel and Sand
- Sand
- Silt and Sand
- Silt

0 0.25 0.5 1 Miles

US Army Corps of Engineers

Total Mammal TEQ Surface Sediment Samples from 2005 to 2008

Lower Passaic River Restoration Project

Note : Study names and corresponding sampling year are listed in the legend. Samples represent either sediment grab samples or the top segment of a sediment core.If samples are plotted at the same location, samples from the latest sampling event were plotted on top.

Figure 14-3o1

September 2008

N

Third River

Second River

12

11

10

9

8

7

Legend

Study Name

- 2008 RM 0 to RM 1 Sampling Study
- 2007-2008 Surface Sediment Samples from EPA Empirical Mass Balance Evaluation Sampling Program
- 2005-2006 USEPA Sampling Program (Malcolm Pirnie, Inc.) High Resolution Cores

Total Mammal TEQ (ppb)

- < 0.032
- 0.033 - 0.100
- 0.101 - 0.320
- > 0.32
- Lower Passaic River Centerline (1/10-Mile River Segments)
- Passaic River Above Dundee Dam
- Tributaries
- Shoreline as defined by the New Jersey Department of Environmental Protection
- Rock and Coarse gravel
- Gravel and Sand
- Sand
- Silt and Sand
- Silt

Miles

0 0.25 0.5 1

US Army Corps of Engineers®

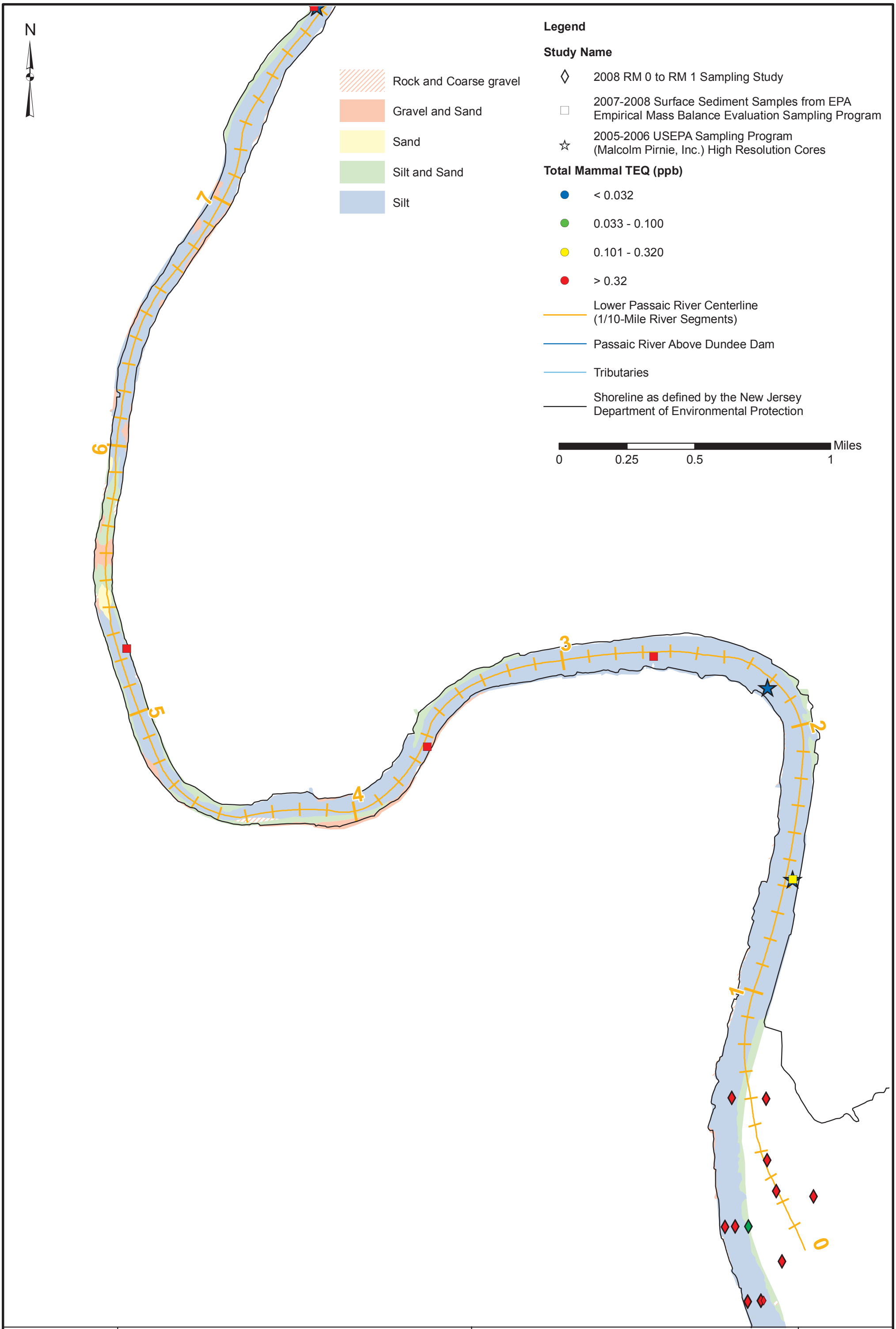
Total Mammal TEQ Surface Sediment Samples from 2005 to 2008

Lower Passaic River Restoration Project

Note : Study names and corresponding sampling year are listed in the legend. Samples represent either sediment grab samples or the top segment of a sediment core.If samples are plotted at the same location, samples from the latest sampling event were plotted on top.

Figure 14-3o2

September 2008



Total Mammal TEQ Surface Sediment Samples from 2005 to 2008

Lower Passaic River Restoration Project

Note : Study names and corresponding sampling year are listed in the legend. Samples represent either sediment grab samples or the top segment of a sediment core.If samples are plotted at the same location, samples from the latest sampling event were plotted on top.

Figure 14-3o3

September 2008